

SEQUENCE LISTING

<110> The Wistar Institute
Gerhard , Walter
Otvos, Laszlo

<120> COMPOSITION AND METHOD FOR PREVENTING OR TREATING A VIRUS
INFECTION

<130> WSTR-0017C

<150> US 60/441,374
<151> 2003-01-16

<160> 10

<170> PatentIn version 3.1

<210> 1
<211> 5
<212> PRT
<213> Artificial Sequence

<220>
<223> Synthetic multiple antigenic agent

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> N-terminal amino group has attached R1 which is 0 to 2 amino
acid residues, wherein said amino acid residue may be a Gly or Cys,
or a nucleic acid sequence.

<220>
<221> MISC_FEATURE
<222> (1)..(1)
<223> Side chain amino group has attached R2 which is a B cell
determinant, a T cell determinant, or a targeting molecule.

<220>
<221> MISC_FEATURE
<222> (3)..(3)
<223> Side chain amino group has attached R3 which is a B cell
determinant, a T cell determinant, or a targeting molecule.

<220>
<221> MISC_FEATURE
<222> (5)..(5)
<223> "Xaa" represents 0 to 1 amino acid residue of Lys-R4, wherein R4
is a B cell determinant, a T cell determinant, or a targeting molecule.

<220>
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<222> (5)..(5)

<223> C-terminus has attached R5 group which is an amino acid, peptide, or nucleic acid sequence.

<400> 1

Lys Gly Lys Gly Xaa
1 5

<210> 2

<211> 14

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<222> (1)..(1)

<223> Mannosylated residue

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<222> (2)..(2)

<223> Mannosylated serine residue attached to side chain amino group

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<222> (4)..(4)

<223> Mannosylated serine residue attached to side chain amino group

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<222> (6)..(6)

<223> Mannosylated serine residue attached to side chain amino group

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<222> (8)..(8)

<223> S2 peptide attached to side chain amino group

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<222> (10)..(10)

<223> S1 peptide attached to side chain amino group

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<222> (12)..(12)

<223> M2e peptide attached to side chain amino group

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Ser Lys Gly Lys Gly Lys Gly Lys Gly Lys Gly Lys Gly Ala
1 5 10

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<222> (3)..(3)

<223> Serine attached to side chain amino group

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<222> (5)..(5)

<223> Serine attached to side chain amino group

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<222> (7)..(7)

<223> S2 peptide attached to side chain amino group

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<222> (9)..(9)

<223> S1 peptide attached to side chain amino group

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<222> (11)..(11)

<223> M2e peptide attached to side chain amino group

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Lys Gly Lys Gly Lys Gly Lys Gly Lys Gly Lys Gly Ala
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<223> Serine residue attached to side chain

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<223> S2 peptide attached to side chain amino group

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Ser Cys Gly Lys Gly Lys Gly Lys Gly Lys Gly Ala
1 5 10

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<223> Dimer created by disulfide linkage

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<223> S2 peptide attached to side chain amino group

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Cys Gly Lys Gly Lys Gly Lys Gly Lys Gly Ala
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Cys Gly Lys Gly Lys Gly Lys Ala
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<222> (3)..(3)
<223> M2e peptide attached to side chain amino group

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<222> (5)..(5)
<223> M2e peptide attached to side chain amino group

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Cys Gly Lys Gly Lys Gly Lys Ala
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<223> Synthetic S1 peptide

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Ser Phe Glu Arg Phe Glu Ile Phe Pro Lys Glu
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His Asn Thr Asn Gly Val Thr Ala Ala Ser Ser His Glu
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<223> Synthetic M2e peptide

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Ser Leu Leu Thr Glu Val Glu Thr Pro Ile Arg Asn Glu Trp Gly Cys
1 5 10 15

Arg Ser Asn Asp Ser Ser Asp Pro
20